

On page 2, please delete line 57 and substitute therefor the following:

24

-- The arrangement of the invention is for generating a mechanical vibration including: a mass; first and second force cells for generating first and second rotating force vectors to form a resultant force acting on the mass to impart mechanical vibration thereto; the first force cell including a first rotating eccentric to generate the first rotating force vector; an electrically controlled first drive for rotating the first rotating eccentric; and, a first angle sensor for detecting the angular position of the first rotating eccentric relative to a reference direction and outputting a first signal indicative thereof; the second force cell including a second rotating eccentric to generate the second rotating force vector; an electrically controlled second drive for rotating the second rotating eccentric; and, a second angle sensor for detecting the angular position of the second rotating eccentric relative to the reference direction and outputting a first signal indicative thereof; and, the electrically controlled first drive being separate from the electrically controlled second drive.

Brief Description of the Drawings

The invention will now be described with reference to the drawings wherein:

FIG. 1 is a block diagram of an embodiment of the arrangement of the invention for generating a mechanical vibration;

FIG. 2 shows two views of the arrangement of the invention for generating mechanical vibrations;

FIG. 3 is a more detailed schematic of the arrangement of the invention equipped with two force vector cells;

FIG. 4 presents three vector diagrams showing the amplitude of the rotating force vector for a phase difference between eccentrics of 0° , 135° and 180° in an arrangement of the invention having two force vector cells;

FIG. 5 presents a force vector with adjustable direction and fixed amplitude and showing how displacing the phase position 0° , 90° and 45° in relation to the reference direction can rotate the force vector;

FIG. 6 presents a force vector with adjustable direction and fixed amplitude; and,

FIGS. 7A and 7B show vector diagrams for a vibration system having three force vector cells wherein the eccentrics 1 and 3 rotate in the same direction and eccentric 2 rotates in the direction opposite thereto.

Description of the Preferred Embodiments of the Invention --.

On page 8, line 223, please delete "SUMMARY:" and substitute therefor:

-- Abstract of the Disclosure --.

In the Claims:

Please cancel claims 1 to 4 and add claims 5 to 8 as follows:

5. An arrangement for generating a mechanical vibration